**FIG. 1**

10.2.2.2.1.1 T25476.0

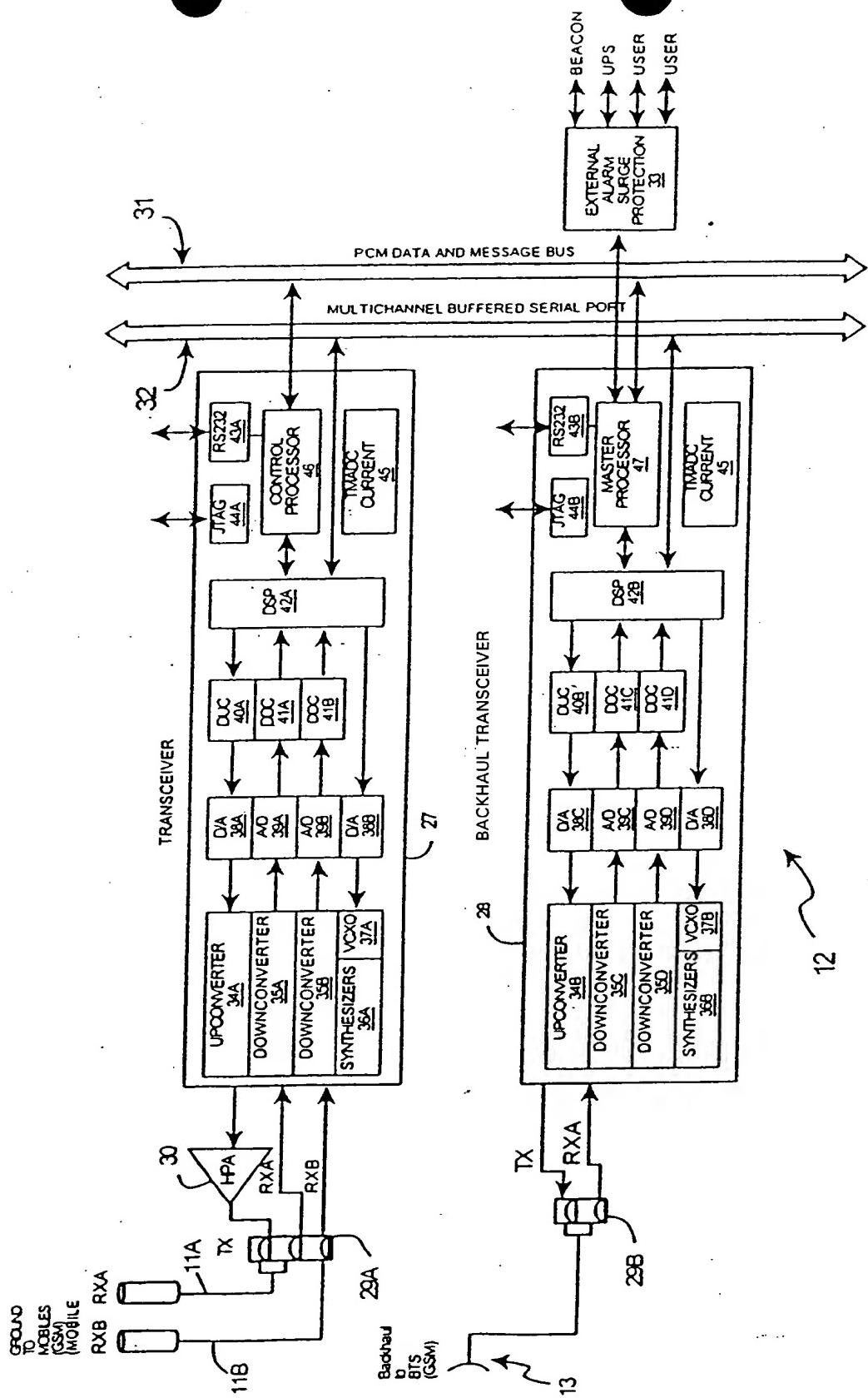


FIG. 2

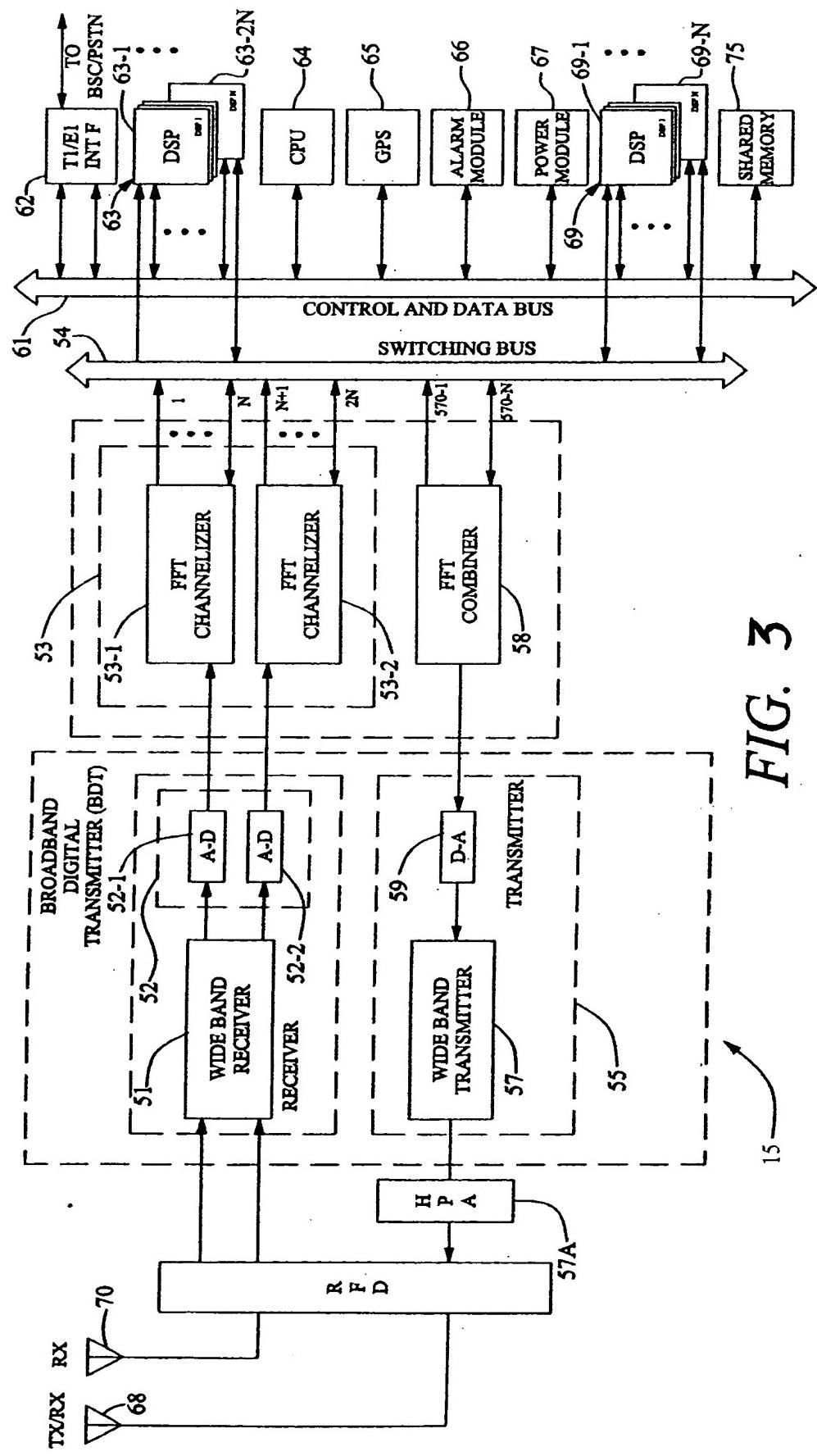


FIG. 3

15

**FIG. 4**

600

610

SEND FROM MOBILE TRANSCEIVER UNIT, A SIGNAL TO A REPEATER STATION ON AN UPLINK CHANNEL

620

RECEIVE AT THE REPEATER STATION, THE SIGNAL FROM THE MOBILE TRANSCEIVER UNIT

630

MEASURE AT THE REPEATER STATION, A POWER LEVEL OF THE SIGNAL RECEIVED FROM THE MOBILE TRANSCEIVER UNIT AND PREPARE TO SEND FROM THE REPEATER STATION, AN INDICATION OF THE MEASURED POWER LEVEL (AND OPTIONAL TRAFFIC) OF THE RECEIVED SIGNAL TO A HOME BASE STATION OVER A CHANNEL ON A BACKHAUL COMMUNICATION LINK, WHEREIN THE INDICATION OF THE MEASURED POWER LEVEL IS ONE OF A PLURALITY OF DISCRETE POWER LEVELS AT WHICH THE BACKHAUL COMMUNICATION LINK TRANSMITS AT

635

DELAY THE TRANSMISSION FROM THE REPEATER STATION TO THE HOME BASE STATION

640

TRANSMIT FROM THE REPEATER STATION and RECEIVE AT THE HOME BASE STATION SERVING THE REPEATER STATION, THE INDICATION OF THE MEASURED POWER LEVEL FROM THE BACKHAUL LINK

645

MANAGING FROM THE HOME BASE STATION, MOBILE TRANSCEIVER UNITS AND ALLOCATION OF CHANNELS WITHIN THE SYSTEM BY USING THE INDICATION OF THE POWER LEVEL MEASUREMENT

650

SEND FROM THE HOME BASE STATION, THE INDICATION OF THE MEASURED POWER LEVEL TO A MANAGING BASE STATION CONTROLLER

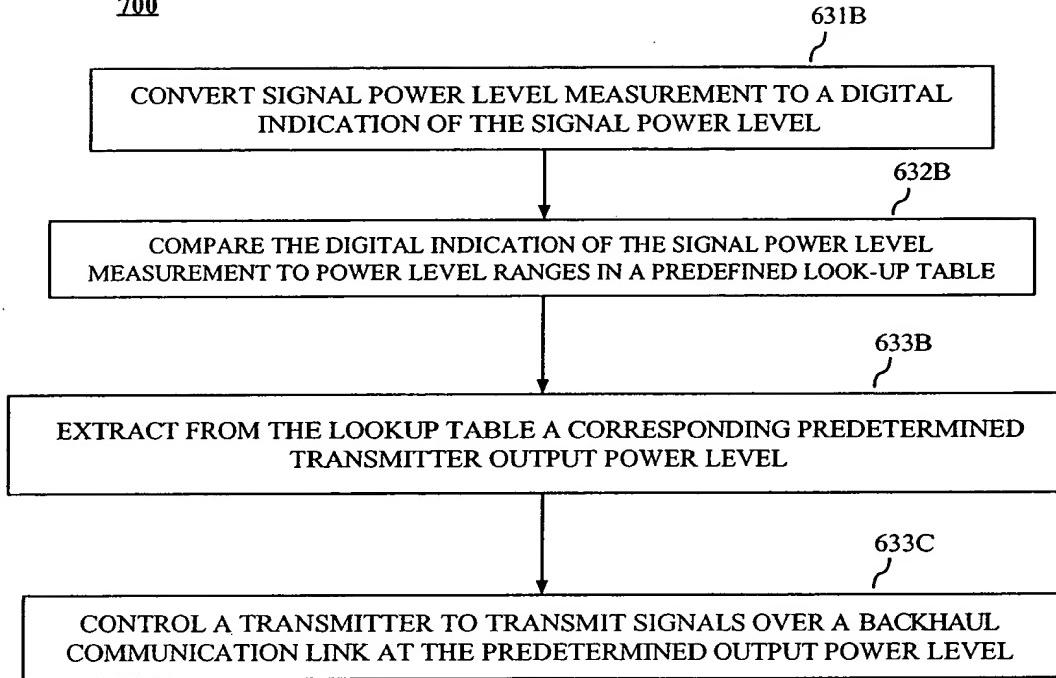
660

MANAGING FROM A BASE STATION CONTROLLER, MOBILE TRANSCEIVER UNITS AND ALLOCATION OF CHANNELS WITHIN THE SYSTEM BY USING THE INDICATION OF THE POWER LEVEL MEASUREMENT

00049210-4222200

**FIG. 5**

700



00232112264260

**FIG. 6**

MEASURED INPUT POWER LEVEL (dBm)	PREDETERMINED OUTPUT POWER LEVEL (dBm)
-25 TO -40	-64
-41 TO -55	-66
-56 TO -65	-68
-66 TO -75	-70
-76 TO -90	-72
-91 TO -111	-74

**FIG. 7**

MEASURED INPUT POWER (dBm)	PRED. OUTPUT LEVEL (dBm) AS MEASURED AT BTS RECEIVER	INSTRUCTION TO MOBILE
-25 TO -65	-70 (POWER LEVEL 1)	LOWER POWER LEVEL
-65 TO -75	-80 (POWER LEVEL 2)	MAINTAIN POWER LEVEL
-75 TO -105	-90 (POWER LEVEL 3)	BOOST POWER LEVEL
-105 TO -111	-100 (POWER LEVEL 4)	PREPARE FOR HANDOFF